GENERAL INFORMATION	
Closure Plan Date Month:	Year:
Cost Estimate Date Month:	Year:
Prepared By	
SITE DESCRIPTION	
General Site Information	
Name of Solid Waste Landfill	
Solid Waste Facilities Permit Number Waste Discharge Requirement Number	er
Facility Operator	
Site Owner	
Site Location Township/Ratitude/Long Assessors Parcel Nur	itude
Site Address	
Landfill Classification	
Class IIClass IIIUnd	classified
Anticipated closure date Month:	Year:

Volume of Waste

1 a1 a2	Estimated in-place volume (gross) Estimated in-place volume (waste)		cu yd cu yd		0
b1 b2	Design site capacity (gross) Design site capacity (waste)		cu yd cu yd		0
c1 c2	Remaining site capacity (gross) Remaining site capacity (waste)	1b1 - 1a1 1b2 - 1a2	cu yd cu yd		0
2 a	Minimum thickness of waste		ft		0
b	Average thickness of waste		ft		0
С	Maximum thickness of waste		ft		0
d	Maximum depth of waste (bgs)		ft		0
3 a	Average height above surrounding terrain		ft		0
b	Typical inclination of side slopes	(horz:vert, e.g., 5:1, 2:1)	ratio		0
4 a	Quantity of waste typically received (landfill average only)		tons/d		0
b	Average waste density		lbs/cu yd		0
С	Average waste/cover ratio (by volume)	(e.g., 4:1, etc.)	ratio		0
d	Percent (%) waste (by volume, decimal)		decimal		0
5	Estimated remaining site life	1c/{[(4a/4b)*2000 lb/t*365 d/y]/4d}	yrs	#DIV/0!	
6 a	Total permitted site acreage		acres		0
b	Waste disposal area acreage (landfill only)		acres		0

CLOSURE COSTS

	Final Cover			
7	Area of Landfill for Final Cover			
а	Area of top deck to be capped	Ad	sq ft	0
b	Area of side slopes to be capped (map area)	As	sq ft	0
С	Conversion Factor		none	0
	Side Slopes Horizontal : Vertical	Conversion Factor		
	5:1 4:1 3:1 2.5:1 2:1 1.75:1	1.02 1.03 1.05 1.08 1.12 1.15		
d	Total Area	Ad + (As x Conv Factor) 7a + (7b x 7c)	sq ft	0

8	Soil (monolayer, foundation, vegetation layer)			
а	Thickness			
a1	Top deck	Td	ft	0
a2	Side slope (measured normal to slope)	Ts	ft	0
b	Volume	[(Td x Ad) + (Ts x As x Conv. factor)]/27 [(8a1 x 7a) + (8a2 x 7b x 7c)]/27	cu yd	0
С	% Native soil (by volume, decimal)		decimal	0.00
d	Native material acquisition cost	8d1 + 8d2 + 8d3	\$/cu yd	\$0.00
d1 d2 d3	Excavation Hauling Other		\$/cu yd \$/cu yd \$/cu yd	\$0.00 \$0.00 \$0.00
е	Native soil cost	8b x 8c x 8d	\$	\$0
f	% Imported soil (by volume, decimal)		decimal	0.00
g	Imported material acquisition cost	8g1 + 8g2 +8g3	\$/cu yd	\$0.00
g1 g2 g3	Purchase Delivery Other		\$/cu yd \$/cu yd \$/cu yd	\$0.00 \$0.00 \$0.00
h	Imported soil cost	8b x 8f x 8g	\$	\$0
i	Placement, grading and compaction	8i1 + 8i2 + 8i3 + 8i4	\$/cu yd	\$0.00
i1 i2 i3 i4	Clearing and grubbing Placement Grading Compaction		\$/cu yd \$/cu yd \$/cu yd \$/cu yd	\$0.00 \$0.00 \$0.00 \$0.00
j	Placement, grading and compaction cost	8b x 8i	\$	\$0
k	Subtotal soil cost	8e + 8h + 8j	\$	\$0

9	Clay Layer (if applicable)			
а	Total Area	7d (will be < 7d if not capping total site)	sq ft	0
b	Thickness		ft	0
С	Volume	(9a x 9b)/27	cu yd	0
d	% Onsite Clay (by volume, decimal)		decimal	0.00
е	Onsite clay acquisition cost		\$/cu yd	\$0.00
e1 e2 e3	Excavation Hauling Other		\$/cu yd \$/cu yd \$/cu yd	\$0.00 \$0.00 \$0.00
f	Onsite clay cost	9c x 9d x 9e	\$	\$0
g	% Imported clay (by volume, decimal)		decimal	0.00
h	Imported clay acquisition cost		\$/cu yd	\$0.00
h1 h2 h3	Purchase Delivery Other		\$/cu yd \$/cu yd \$/cu yd	\$0.00 \$0.00 \$0.00
i	Imported clay cost	9c x 9g x 9h	\$	\$0.00
j	Placement, grading, compaction	9j1 + 9j2 + 9j3	\$/cu yd	\$0.00
j1 j2 j3	Placement Grading Compaction		\$/cu yd \$/cu yd \$/cu yd	\$0.00 \$0.00 \$0.00
k	Placement, grading and compaction cost	9c x 9j	\$	\$0.00
I	Subtotal clay cost	9f + 9i + 9k	\$	\$0.00

10	Synthetic Membrane (if applicable)				
а	Type of membrane (e.g., HDPE, CPE, PVC) Thickness		mil	(0
b	Quantity	7d (will be < 7d if not capping total site)	sq ft	0	
С	Purchase, delivery and installation cost		\$/sq ft	\$0.00	1
c1 c2 c3 c4 c5	Purchase Delivery Site Preparation Installation Other		\$/sq ft \$/sq ft \$/sq ft \$/sq ft \$/sq ft	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00))
е	Subtotal synthetic layer cost	10b x 10c		\$0.00	
11	Geosynthetic Clay Layer (if applicable)				
а	Type of GCL (woven, etc.)				
b	Quantity	7d (will be < 7d if not capping total site)	sq ft	0	
С	Purchase, delivery and installation cost		\$/sq ft	\$0.00	1
c1 c2 c3 c4 c5	Purchase Delivery Site Preparation Installation Other		\$/sq ft \$/sq ft \$/sq ft \$/sq ft \$/sq ft	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00))
е	Subtotal GCL layer cost	11b x 11c		\$0.00	

12	Other Layers			
а	Geosynthetic (grids, textiles, etc.)			
a1a	Type			
a1b	Size (thickness)		mil	0
a1c	Quantity	7d	sq ft	0
	·	(will be < 7d if not for total site)	·	
a1d	Purchase, delivery and installation cost		\$/sq ft	\$0.00
a1d1	Purchase		\$/sq ft	\$0.00
a1d2	Delivery		\$/sq ft	\$0.00
a1d3	Site Preparation		\$/sq ft	\$0.00
a1d4	Installation		\$/sq ft	\$0.00
a1d5	Other		\$/sq ft	\$0.00
a1e	Layer cost	12a1c x 12a1d	\$	\$0.00
a2a	Type			
a2b	Size (thickness)		mil	0
a2c	Quantity	7d (will be < 7d if not for total site)	sq ft	0
a2d	Purchase, delivery and installation cost		\$/sq ft	\$0.00
a2d1	Purchase		\$/sq ft	\$0.00
	Delivery		\$/sq ft	\$0.00
	Site Preparation		\$/sq ft	\$0.00
	Installation		\$/sq ft	\$0.00
	Other		\$/sq ft	\$0.00
a2e	Layer cost	12a2c x 12a2d	\$	\$0.00
b	Other (gravel, asphalt, rock etc.)			
b1a	Type			
b1b	Thickness		ft	0
b1c	Area	7d	sq ft	0
		(will be < 7d if not for total site)		
b1d	Volume	(12b1b x 12b1c)/27	cu yd	0
b1e	Purchase, delivery and installation cost		\$/cu yd	\$0.00
b1e1	Purchase		\$/cu yd	\$0.00
	Delivery		\$/cu yd	\$0.00
	Site Preparation		\$/cu yd	\$0.00
	Installation		\$/cu yd	\$0.00
	Other		\$/cu yd	\$0.00
b1f	Layer cost	12b1d x 12b1e	\$	\$0.00
b2a	Type			
b2b	Thickness		ft	0
b2c	Area	7d	sq ft	0
		(will be < 7d if not for total site)	•	
b2d	Volume	(12b2b x 12b2c)/27	cu yd	0

b2e	Purchase, delivery and installation cost		\$/cu yd	\$0.00
b2e2 b2e3 b2e4	Purchase Delivery Site Preparation Installation Other		\$/cu yd \$/cu yd \$/cu yd \$/cu yd \$/cu yd	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00
b2f	Layer cost	12b1d x 12b1e	\$	\$0.00
С	Subtotal other layer cost	12a1e + 12a2e + 12b1f + 12b2f	\$	\$0.00

13	Construction Quality Assurance			
а	Soil			
a1	Field Tests			
a1a	Test			
	Frequency	(could be #/day)	#/cu yd	0
	Volume of material	Potentially 8b + 9c	cu yd	0
	Test Unit Cost		\$/test	\$0.00
a1a4	Subtotal test cost	13a1a1 x 13a1a2 x 13a1a3	\$	\$0.00
a1b	Test	(, , , , , , , , , , , , , , , , , , ,		
	Frequency	(could be #/day)	#/cu yd	0
	Volume of material	Potentially 8b + 9c	cu yd	0
	Test Unit Cost	42-4b4 v 42-4b2 v 42-4b2	\$/test	\$0.00
a104	Subtotal test cost	13a1b1 x 13a1b2 x 13a1b3	\$	\$0.00
a1c	Test	()	"	
	Frequency	(could be #/day)	#/cu yd	0
	Volume of material	Potentially 8b + 9c	cu yd	0
	Test Unit Cost	120101 v 120102 v 120102	\$/test	\$0.00
a104	Subtotal test cost	13a1c1 x 13a1c2 x 13a1c3	\$	\$0.00
a1d	Test	(),,, ,,,,		
	Frequency	(could be #/day)	#/cu yd	0
	Volume of material	Potentially 8b + 9c	cu yd	0
	Test Unit Cost	40 4 14 40 4 10 40 4 10	\$/test	\$0.00
a104	Subtotal test cost	13a1d1 x 13a1d2 x 13a1d3	\$	\$0.00
a1e	Subtotal soil field tests	13a1a4 +13a1b4 +13a1c4 +13a1d4	\$	\$0.00
a2	Lab Tests			
a2a	Test			
	Frequency	(could be #/day)	#/cu yd	0
	Volume of material	Potentially 8b + 9c	cu yd	0
	Test Unit Cost		\$/test	\$0.00
a2a4	Subtotal test cost	13a2a1 x 13a2a2 x 13a2a3	\$	\$0.00
a2b	Test			
	Frequency	(could be #/day)	#/cu yd	0
	Volume of material	Potentially 8b + 9c	cu yd	0
	Test Unit Cost		\$/test	\$0.00
a2b4	Subtotal test cost	13a2b1 x 13a2b2 x 13a2b3	\$	\$0.00
a2c	Test			
	Frequency	(could be #/day)	#/cu yd	0
	Volume of material	Potentially 8b + 9c	cu yd	0
	Test Unit Cost		\$/test	\$0.00
a2c4	Subtotal test cost	13a2c1 x 13a2c2 x 13a2c3	\$	\$0.00

a2d2 a2d3	Test Frequency Volume of material Test Unit Cost Subtotal test cost	(could be #/day) Potentially 8b + 9c 13a2d1 x 13a2d2 x 13a2d3	#/cu yd cu yd \$/test \$	0 0 \$0.00 \$0.00
a2e	Subtotal soil lab tests	13a2a4 +13a2b4 +13a2c4 +13a2d4	\$	\$0.00
a3	Soil tests	13a1e + 13a2e	\$	\$0.00
b	Synthetics/Other			
b1	Field Tests			
b1a	Test		11 / · • •	0
	Frequency Area of material	(could be #/day) Potentially 20b, 21b, 22a1c, 22a2c	#/sq ft sq ft	0
	Test Unit Cost		\$/test	\$0.00
b1a4	Subtotal test cost	13b1a1 x 13b1a2 x 13b1a3	\$	\$0.00
b1b	Test			
	Frequency Area of material	(could be #/day) Potentially 8b + 9c	#/sq ft sq ft	0
	Test Unit Cost	Folentially 60 + 90	\$/test	\$0.00
	Subtotal test cost	13b1b1 x 13b1b2 x 13b1b3	\$	\$0.00
b1c	Test			
	Frequency	(could be #/day)	#/sq ft	0
	Area of material Test Unit Cost	Potentially 8b + 9c	sq ft \$/test	0 \$0.00
	Subtotal test cost	13b1c1 x 13b1c2 x 13b1c3	\$	\$0.00
b1d	Test			
b1d1	Frequency	(could be #/day)	#/sq ft	0
	Area of material	Potentially 8b + 9c	sq ft	0
	Test Unit Cost Subtotal test cost	12hd1 v 12h1d2 v 12h1d2	\$/test	\$0.00
DTU4		13bd1 x 13b1d2 x 13b1d3	\$	\$0.00
b1e	Subtotal soil field tests	13b1a4 +13b1b4 +13b1c4 +13b1d4	\$	\$0.00
b2	Lab Tests			
b2a	Test			
	Frequency Area of material	(could be #/day) Potentially 8b + 9c	#/sq ft sq ft	0
	Test Unit Cost	Potentially 60 + 90	\$/test	\$0.00
	Subtotal test cost	13b2a1 x 13b2a2 x 13b2a3	\$	\$0.00
b2b	Test			
	Frequency	(could be #/day)	#/sq ft	0
	Area of material	Potentially 8b + 9c	sq ft	0 00
	Test Unit Cost Subtotal test cost	13b2b1 x 13b2b2 x 13b2b3	\$/test \$	\$0.00 \$0.00
			Ψ	ψ0.00
b2c b2c1	Test Frequency	could be #/day)	#/sq ft	0
	Area of material	Potentially 8b + 9c	sq ft	0
	Test Unit Cost	·	\$/test	\$0.00
b2c4	Subtotal test cost	13b2c1 x 13b2c2 x 13b2c3	\$	\$0.00

b2d	Test			
b2d1	Frequency	(could be #/day)	#/sq ft	0
b2d2	Area of material	Potentially 8b + 9c	sq ft	0
b2d3	Test Unit Cost		\$/test	\$0.00
b2d4	Subtotal test cost	13b2d1 x 13b2d2 x 13b2d3	\$	\$0.00
b2e	Subtotal synthetic lab tests	13b2a4 +13b2b4 +13b2c4 +13b2d4	\$	\$0.00
b3	Synthetic test	13b1e + 13b2e	\$	\$0.00
С	Inspections			
c1	Frequency (# per day, # per cu yd, etc.)		#/unit	0
c2	Volume/days/etc.		unit	0
c3	unit cost		\$/unit	\$0.00
c4	Inspection cost	13c1 x 13c2 x 13c3	\$	\$0.00
d	Reports			
d1	Frequency (# per day, # per cu yd, etc.)		#/unit	0
d2	Volume/days/etc.		unit	0
d3	unit cost		\$/unit	\$0.00
d4	Subtotal Report cost	13d1 x 13d2 x 13d3	\$	\$0.00
е	CQA costs	13a3 + 13b3 + 13c4 + 13d4	\$	\$0.00
14	Final Cover Subtotal	8k + 9l +10e + 11e + 12c + 13e	\$	\$0.00

Revegetation

15	Soil Preparation			
а	Area (including closed areas to be replanted)		acres	
b	Preparation unit cost		\$/acre	
С	Soil preparation subtotal	15a x 15b	\$	
16	Planting			
а	Planting unit cost (e.g., seeding, sprigging, plugs)		\$/acre	
b	Planting cost	15a x 16b	\$	
17	Fertilizing			
а	Fertilizer unit cost		\$/acre	
b	Fertilizing cost	15a x 17b	\$	
18	Mulching			
а	Mulch unit cost		\$/acre	
b	Mulching cost	15a x 18b	\$	
19	Irrigation installation cost		\$	
20	Revegetation Subtotal	15c + 16b+ 17b + 18b + 19		

Landfill Gas Monitoring and Control

21	Existing gas monitoring network?	Yes/No		
	Meets Title 27 CCR Standards?	Yes/No		
	If No,			
а	Number wells needed		#	0
b	Depth of wells	See 2d	ft	0
С	Installation cost	21c1 + 21c2 + 21c3	\$/ft	\$0.00
c1 c2 c3	Drilling Materials Installation		\$/ft \$/ft \$/ft	\$0.00 \$0.00 \$0.00
d	Subtotal gas monitoring cost	21a x 21b x 21c	\$	\$0
22	Existing gas control system?	Yes/No		
	New/enhanced system needed?	Yes/No		
	If Yes,			
а	Number wells needed		#	0
b	Depth of wells	See 2d	ft	0
С	Installation unit cost	22c1 + 22c2 + 22c3	\$/ft	\$0.00
c1 c2 c3	Drilling Materials Installation		\$/ft \$/ft \$/ft	\$0.00 \$0.00 \$0.00
d	Subtotal gas control installation cost	22a x 22b x 22c	\$	\$0
е	Header/pipeline cost	22e3 + 22e6	\$	\$0.00
e1 e2 e3 e4 e5 e6	Pipe unit cost Linear ft needed Subtotal pipe cost Well assemblies unit cost Number well assemblies Subtotal well assembly cost	22e1 x 22e2 22a 22e4 X 22e5	\$/ft ft \$ \$/well # \$	\$0.00 0 \$0.00 \$0.00 0 \$0.00
f	Other appurtenances (e.g., flare, etc.)		\$	\$0
g	Subtotal gas control cost	22d + 22e + 22f	\$	\$0
23	Landfill Gas Subtotal	21d + 22g	\$	\$0

Groundwater Monitoring/Remediation

24	Existing GW monitoring network?	Yes/No		
	Meets Title 27 CCR standards?	Yes/No		Х
	If No,			
а	Number wells needed		#	0
b	Depth of wells		ft	0
С	Installation cost	24c1 + 24c2 + 24c3	\$/ft	\$0.00
c1 c2 c3	Drilling Materials Installation		\$/ft \$/ft \$/ft	\$0.00 \$0.00 \$0.00
d	Subtotal GW monitoring cost	24a x 24b x 24c	\$	\$0
25	Existing GW remediation system?	Yes/No		
	New/enhanced system needed?	Yes/No		
	If Yes,			
а	Number wells needed		#	0
b	Depth of wells		ft	0
С	Installation unit cost	25c1 + 25c2 + 25c3	\$/ft	\$0.00
c1 c2 c3	Drilling Materials Installation		\$/ft \$/ft \$/ft	\$0.00 \$0.00 \$0.00
d	Subtotal GW remediation installation cost	25a x 25b x 25c	\$	\$0
е	Header/pipeline cost	25e3 + 25e6	\$	\$0.00
e1 e2 e3 e4 e5 e6	Pipe unit cost Linear ft needed Subtotal pipe cost Well assemblies unit cost Number well assemblies Subtotal well assembly cost	25e1 x 25e2 25a 25e4 x 25e5	\$/ft ft \$ \$/well # \$	\$0.00 0 \$0.00 \$0.00 0 \$0.00
f	Other appurtenances (e.g., flare, etc.)		\$	\$0
g	Subtotal GW remediation cost	25d + 25e + 25f	\$	\$0
26	Groundwater subtotal	24d + 25g	\$	\$0

Leachate Control

27	Existing leachate control system?	Yes/No		V
	New/enhanced system needed?	Yes/No		X
	If Yes,			
а	Header/pipeline cost	27a3 + 27a6	\$	\$0.00
a1	Pipe unit cost		\$/ft	\$0.00
a2	Linear ft needed		ft	0
a3	Subtotal pipe cost	27a1 x 27a2	\$	\$0.00
a4	Header assemblies unit cost		\$/well	\$0.00
a5	Number Header assemblies		#	0
a6	Subtotal well assembly cost	27a4 x 27a5	\$	\$0.00
b	Treatment plant cost		\$	\$0
С	Leachate subtotal	27a 27b	\$	\$0

	Drainage			
28	Existing SW drainage system?	Yes/No		
	New/enhancement needed?	Yes/No		
	If Yes,			
а	Drainage channels/down drains/culverts			
a1	Channel cost	28a1a x 28a1b + 28a1c	\$	\$0
a1a	Linear feet		ft	0
a1b a1c	Linear foot unit cost Entry/exit structures		\$/ft \$	\$0.00 \$0
aic	Littly/exit structures		Ψ	ΨΟ
a2	Channel cost	28a2a x 28a2b + 28a2c	\$	\$0
a2a	Linear feet		ft	0
a2b	Linear foot unit cost		\$/ft	\$0.00
a2c	Entry/exit structures		\$	\$0
a3	Channel cost	28a3a x 28a3b + 28a3c	\$	\$0
аЗа	Linear feet		ft	0
a3b	Linear foot unit cost		\$/ft	\$0.00
a2c	Entry/exit structures		\$	\$0
a4	Subtotal drainage channels	28a1 + 28a2 + 28a3	\$	\$0
b	Berms			
b1	Berm cost	28b1a x 28b1b	\$	\$0
b1a	Linear feet		ft	0
b1b	Linear foot unit cost		\$/ft	\$0.00
b2	Berm cost	28b2a x 28b2b	\$	\$0
b2a	Linear feet		ft	0
b2b	Linear foot unit cost		\$/ft	\$0.00
b3	Subtotal berms	28b1 + 28b2	\$	\$0
С	Drainage/detention basins	28c1 x 28c2 + 28c3	\$	\$0
c1	Volume		cu yd	0
c2	Volume unit cost		\$/cu yd	\$0.00
с3	Inlet/outlet structures		\$	\$0
٦	Drainaga subtatal	2824 2862 282	¢	ድር
d	Drainage subtotal	28a4 + 28b3 + 28c	\$	\$0

	Security			
29	Existing security? (e.g., fence, gates, locks, signs, etc.)	Yes/No		
	New/enhanced security needed?	Yes/No		
	If Yes,			
а	Fence	29a1 x 29a2	\$	\$0
a1 a2	Linear feet Linear feet unit cost		ft \$/ft	0 \$0.00
b	Other (e.g., gates, signs, etc.)		\$	\$0
С	Security subtotal		\$	\$0
	Structure Removal/Abandonment			
30	Structures/monitoring to be removed	Yes/No		
	If Yes,			
а	Structure removal		\$0	\$0
b	Monitoring well, etc. removal		\$0	\$0
С	Structure Removal/Abandonment subtotal	30a + 30b	\$0	\$0
	Documents/Reports			
31 a	Final Closure & Postclosure Maintenance Plan		\$	\$0
b	Design & Specifications		\$	\$0
С	Closure Certification		\$	\$0
d	Documents/Reports subtotal	31a + 31b + 31c	\$	\$0
00	Supplemental Data	on and one of the testing and the		
32	Itemize costs on additional worksheets for closure p waste disposal site and attach at the end of this wo			
а	Other - Closure Costs		\$	\$0

POSTCLOSURE MAINTENANCE COSTS

Note: All costs are to be annual costs.

	Revegetation			
33	Fertilizing			
а	Area		acres	0
b	Unit cost		\$/acre	\$0.00
С	Fertilizing cost	33a x 33b	\$	\$0
34	Irrigation			
а	Quantity		gal/d	0
b	Unit cost		\$/gal	\$0.00
С	Irrigation frequency		d/wk	0
d	Annual irrigation costs	34a x 34b x 34c x 52 wk/yr	\$	\$0
е	Maintenance costs		\$	\$0
f	Irrigation costs	34d + 34e	\$	\$0
35	Replanting			
а	Area		acres	0
b	Unit cost		\$/acre	\$0.00
С	Replanting cost	35a x 35b	\$	\$0
36	Revegetation subtotal	33c + 34f + 35c	\$	\$0
	Erosion Control			
	Erosion Control			
37 a	Area		acres	0
b	Unit cost		\$/acre	\$0.00
С	Erosion Control Cost	37a x 37b	\$	\$0

Monitoring

38	Gas Monitoring			
а	Number wells		#	0
b	Sample Testing			
b1	Principal gases			
b1a b1b b1c b1d	Monitoring frequency Sampling unit cost Testing unit cost Subtotal principal gas monitoring	38a x 38b1a x (38b1b + 38b1c)	#/yr \$ \$ \$	0 \$0.00 \$0.00 \$0
b2	Trace gases			
b2a b2b b2c b2d	Monitoring frequency Sampling unit cost Testing unit cost Subtotal trace gas monitoring	38a x 38b2a x (38b2b + 38b2c)	#/yr \$ \$ \$	0 \$0.00 \$0.00 \$0
b3	Subtotal sampling cost	38b1d + 38b2d	\$	\$0
С	Probe replacement			
c1 c2 c3	Frequency Unit cost Subtotal replacement cost	(38a x 38c2)/38c1	yr \$/well \$	0 \$0 #DIV/0!
d	Maintenance			
d1 d2	Unit cost Subtotal maintenance	38a x 38d1	\$ \$	\$0.00 \$0
е	Gas monitoring subtotal	38b3 + 38c3 + 38d2	\$	#DIV/0!

39	Vadose Zone Monitoring			
а	Number devices		#	0
b	Sample Testing			
b1	Principal parameters			
b1a b1b b1c b1d	Monitoring frequency Sampling unit cost Testing unit cost Subtotal principal parameter monitoring	39a x 39b1a x (39b1b + 39b1c)	#/yr \$ \$ \$	0 \$0.00 \$0.00 \$0
b2	Other parameters			
b2a b2b b2c b2d	Monitoring frequency Sampling unit cost Testing unit cost Subtotal other parameter monitoring	39a x 39b2a x (39b2b + 39b2c)	#/yr \$ \$ \$	0 \$0.00 \$0.00 \$0
b3	Subtotal sampling cost	39b1d + 39b2d	\$	\$0
С	Device replacement			
c1 c2 c3	Frequency Unit cost Subtotal replacement cost	(39a x 39c2)/39c1	yr \$/well \$	0 \$0 #DIV/0!
d	Maintenance			
d1 d2	Unit cost Subtotal maintenance	39a x 39d1	\$ \$	\$0.00 \$0
е	Vadose zone monitoring subtotal	39b3 + 39c3 + 39d2	\$	#DIV/0!

40	Ground Water Monitoring			
а	Number wells		#	0
b	Sample Testing			
b1	Principal parameters			
b1a b1b b1c b1d	Monitoring frequency Sampling unit cost Testing unit cost Subtotal principal parameter monitoring	40a x 40b1a x (40b1b + 40b1c)	#/yr \$ \$ \$	0 \$0.00 \$0.00 \$0
b2	Other parameters			
b2a b2b b2c b2d	Monitoring frequency Sampling unit cost Testing unit cost Subtotal other parameter monitoring	40a x 40b2a x (40b2b + 40b2c)	#/yr \$ \$ \$	0 \$0.00 \$0.00 \$0
b3	Subtotal sampling cost	40b1d + 40b2d	\$	\$0
С	Well replacement			
c1 c2 c3	Frequency Unit cost Subtotal replacement cost	(40a x 40c2)/40c1	yr \$/well \$	0 \$0 #DIV/0!
d	Maintenance			
d1 d2	Unit cost Subtotal maintenance	40a x 40d1	\$ \$	\$0.00 \$0
е	Ground water monitoring subtotal	40b3 + 40c3 + 40d2	\$	#DIV/0!
41	Monitoring cost subtotal	38e + 39e + 40e	\$	#DIV/0!

Remediation/Control

	remediation/control	=		
42	Gas Remediation/Control			
	Gas collection/control system?	Yes/No		
	If Yes			
а	System operation & maintenance cost			
a1	No. of Wells		gal	\$0
a2	Unit cost		\$/gal	\$0.00
a3	Subtotal well O&M cost	42a1 x 42a2	\$	\$0
a4	Other O&M cost		\$	\$0
a5	Subtotal O&M cost	42a3 + 42a4	\$	\$0
b	Control			
b1	Onsite control			
b1a	Volume/unit frequency		cf/d	0
b1b	Unit cost		\$/cf	\$0.00
b1c	Subtotal onsite control cost	42b1a x 42b1b	\$	\$0
b2	Offsite control			
b2a	Volume/unit frequency		cf/d	0
b2b	Unit cost		\$/cf	\$0.00
b2c	Subtotal onsite control cost	42b2a x 42b2b	\$	\$0
b3	Subtotal control cost	42b1c + 42b2c	\$	\$0
С	Sampling and testing			
c1	Monitoring frequency		#/yr	0
c2	Number of samples/round		#	0
c3	Unit sampling cost		\$	\$0.00
c4	Unit testing cost		\$ \$ \$	\$0.00
c5	Subtotal sampling and testing cost	42c1 x 42c2 x (42c3 + 42c4)	\$	\$0
d	Well replacement			
d1	Number wells		#	0
d2	Frequency		yr	0
d3	Unit cost		\$/well	\$0
d4	Subtotal replacement cost	(42d1 x 42d3/42d2	\$	#DIV/0!
е	Gas remediation/control subtotal	42a5 + 42b3 + 42c5 + 42d4	\$	#DIV/0!

43	Leachate Remediation/Control			
	Leachate collection/removal system?	Yes/No		
	If Yes			
а	System operation & maintenance cost		\$	\$0
a1 a2 a3	Volume Unit cost Subtotal O&M cost	43a1 x 43a2	gal \$/gal \$	\$0 \$0.00 \$0
b	Treatment			
b1	Onsite treatment			
b1a b1b b1c	Volume/unit frequency Unit cost Subtotal onsite treatment cost	43b1a x 43b1b	gal/d \$/gal \$	0 \$0.00 \$0
b2	Offsite treatment			
b2a b2b b2c	Volume/unit frequency Unit cost Subtotal onsite treatment cost	43b2a x 43b2b	gal/d \$/gal \$	0 \$0.00 \$0
b3	Subtotal treatment cost	43b1c + 43b2c	\$	\$0
С	Sampling and testing			
c1 c2 c3 c4 c5	Monitoring frequency Number of samples/round Unit sampling cost Unit testing cost Subtotal sampling and testing cost	43c1 x 43c2 x (43c3 + 43c4)	#/yr # \$ \$	0 0 \$0.00 \$0.00 \$0
d	Leachate remediation/control subtotal	43a3 + 43b3 + 43c5	\$	\$0

44	Ground Water Remediation/Control			
	GW collection/control system?	Yes/No		
	If Yes			
а	System operation & maintenance cost			
a1	No. of Wells		gal	\$0
a2	Unit cost		\$/gal	\$0.00
a3	Subtotal well O&M cost	44a1 x 44a2	\$	\$0
a4	Other O&M cost	4402 + 4404	\$ \$	\$0 \$0
a5	Subtotal O&M cost	44a3 + 44a4	Ф	\$0
b	Treatment/control			
b1	Onsite treatment/control			
b1a	Volume/unit frequency		gal/d	0
b1b	Unit cost		\$/gal	\$0.00
b1c	Subtotal onsite control cost	44b1a x 44b1b	\$	\$0
b2	Offsite treatment/control			
b2a	Volume/unit frequency		gal/d	0
b2b	Unit cost		\$/gal	\$0.00
b2c	Subtotal onsite control cost	44b2a x 44b2b	\$	\$0
b3	Subtotal control cost	44b1c + 44b2c	\$	\$0
С	Sampling and testing			
c1	Monitoring frequency		#/yr	0
c2	Number of samples/round		#	0
c3	Unit sampling cost		\$	\$0.00
c4	Unit testing cost	44 4 44 0 444 0 44 4)	\$	\$0.00
c5	Subtotal sampling and testing cost	44c1 x 44c2 x (44c3 + 44c4)	\$	\$0
d	Well replacement			
d1	Number wells		#	0
d2	Frequency		yr	0
d3	Unit cost		\$/well	\$0
d4	Subtotal replacement cost	(44d1 x 44d3/44d2	\$	#DIV/0!
е	GW remediation/control subtotal	44a5 + 44b3 + 44c5 + 44d4	\$	#DIV/0!
45	Remediation/control cost subtotal	42e + 43d + 44e	\$	#DIV/0!

	Drainage	_		
46 a	Channels			
a1	Length		ft	0
a2	O&M unit cost		\$/ft	\$0.00
a3	Subtotal O&M cost	46a1 x 46a2	\$	\$0
b	Berms			
b1	Length		ft	0
b2	O&M unit cost		\$/ft	\$0.00
b3	Subtotal O&M cost	46b1 x 46b2	\$	\$0
С	Drainage basins			
c1	Volume		gal	0
c2	O&M unit cost	40.4.40.0	\$/gal	\$0.00
c3	Subtotal O&M cost	46c1 x 46c2	\$	\$0
d	Erosion control			
d1	Area		acres	0
d2	O&M unit cost		\$/acre	\$0.00
d3	Subtotal O&M cost	46d1 x 46d2	\$	\$0
е	Drainage subtotal	46a3 + 46b3 + 46c3 + 46d3	\$	\$0
	Security	_		
47	Security Security subtotal (e.g., O&M costs for repa	ir/replace fence, gate, etc.)	\$	\$0
47	-	ir/replace fence, gate, etc.)	\$	\$0
	Security subtotal (e.g., O&M costs for repairs	ir/replace fence, gate, etc.)	\$	\$0
47 48 a	Security subtotal (e.g., O&M costs for repa	ir/replace fence, gate, etc.)	\$	\$0
48 a a1	Security subtotal (e.g., O&M costs for repairment of the subtotal (e.g., O&M c	ir/replace fence, gate, etc.)	# /yr	0
48 a a1 a2	Security subtotal (e.g., O&M costs for repairment of the subtotal (e.g., O&M c	•	#/yr \$/#	0 \$0.00
48 a a1	Security subtotal (e.g., O&M costs for repairment of the subtotal (e.g., O&M c	ir/replace fence, gate, etc.) - 48a1 x 48a2	# /yr	0
48 a a1 a2	Security subtotal (e.g., O&M costs for repairment of the subtotal (e.g., O&M c	•	#/yr \$/#	0 \$0.00
48 a a1 a2 a3 b	Inspection/Reporting Inspection Frequency Unit cost Subtotal inspection cost Reporting	•	#/yr \$/# \$	0 \$0.00
48 a a1 a2 a3	Security subtotal (e.g., O&M costs for repairment of the cost of t	•	#/yr \$/#	0 \$0.00 \$0
48 a a1 a2 a3 b	Inspection/Reporting Inspection Frequency Unit cost Subtotal inspection cost Reporting Frequency	•	#/yr \$/# \$	0 \$0.00 \$0
48 a a1 a2 a3 b	Inspection/Reporting Inspection Frequency Unit cost Subtotal inspection cost Reporting Frequency Unit cost	- 48a1 x 48a2	#/yr \$/# \$ #/yr \$/#	0 \$0.00 \$0
48 a a1 a2 a3 b b1 b2 b3	Inspection/Reporting Inspection Frequency Unit cost Subtotal inspection cost Reporting Frequency Unit cost Subtotal reporting Subtotal reporting cost	48a1 x 48a2 48b1 x 48b2	#/yr \$/# \$ #/yr \$/# \$	0 \$0.00 \$0 0 \$0.00 \$0
48 a a1 a2 a3 b b1 b2 b3	Inspection/Reporting Inspection Frequency Unit cost Subtotal inspection cost Reporting Frequency Unit cost Subtotal reporting cost Inspection/Reporting subtotal Supplemental Data Itemize costs on additional worksheets for	48a1 x 48a2 48b1 x 48b2 48a3 + 48b3 postclosure maintenance procedures	#/yr \$/# \$ #/yr \$/# \$	0 \$0.00 \$0 0 \$0.00 \$0
48 a a1 a2 a3 b b1 b2 b3	Inspection/Reporting Inspection Frequency Unit cost Subtotal inspection cost Reporting Frequency Unit cost Subtotal reporting cost Subtotal reporting cost Inspection/Reporting subtotal Supplemental Data	48a1 x 48a2 48b1 x 48b2 48a3 + 48b3 postclosure maintenance procedures	#/yr \$/# \$ #/yr \$/# \$	0 \$0.00 \$0 0 \$0.00 \$0

SUMMARY OF COST ESTIMATES

	Facility Name: SWIS:	0 0	
	Closure		
	Final Cover	Line 14	\$0
	Revegetation	Line 20	\$0
	Landfill Gas Monitoring and Control	Line 23	\$0
	Groundwater Monitoring/Remediation	Line 26	\$0
	Leachate Control	Line 27c	\$0
	Drainage	Line 28d	\$0
	Security	Line 29c	\$0
	Structure Removal/Abandonment	Line 30c	\$0
	Documents/Reports	Line 31d	\$0
	Other Closure Costs	Line 32a	\$0
50	I. Subtotal		\$0
51	II. 20% Contingency Costs	Subtotal I x 20%	\$0
			·
52	III. Total Closure Cost	Subtotal I + Contingency	\$0
52	III. Total Closure Cost Postclosure Maintenance	Subtotal I + Contingency	
52		Subtotal I + Contingency Line 36	
52	Postclosure Maintenance		\$0
52	Postclosure Maintenance Revegetation	Line 36	\$0 \$0
52	Postclosure Maintenance Revegetation Erosion Control	Line 36 Line 37c	\$0 \$0 \$0
52	Postclosure Maintenance Revegetation Erosion Control Monitoring	Line 36 Line 37c Line 41	\$0 \$0 \$0 #DIV/0!
52	Postclosure Maintenance Revegetation Erosion Control Monitoring Remediation/Control	Line 36 Line 37c Line 41 Line 45	\$0 \$0 \$0 #DIV/0! #DIV/0!
52	Postclosure Maintenance Revegetation Erosion Control Monitoring Remediation/Control Drainage	Line 36 Line 37c Line 41 Line 45 Line 46e	\$0 \$0 \$0 #DIV/0! #DIV/0!
52	Postclosure Maintenance Revegetation Erosion Control Monitoring Remediation/Control Drainage Security	Line 36 Line 37c Line 41 Line 45 Line 46e Line 47	\$0 \$0 \$0 #DIV/0! #DIV/0! \$0 \$0
52	Postclosure Maintenance Revegetation Erosion Control Monitoring Remediation/Control Drainage Security Inspection/Reporting	Line 36 Line 37c Line 41 Line 45 Line 46e Line 47 Line 48c	\$0 \$0 \$0 #DIV/0! #DIV/0! \$0 \$0
	Postclosure Maintenance Revegetation Erosion Control Monitoring Remediation/Control Drainage Security Inspection/Reporting Other	Line 36 Line 37c Line 41 Line 45 Line 46e Line 47 Line 48c	\$0 \$0 \$0 #DIV/0! #DIV/0! \$0 \$0 \$0